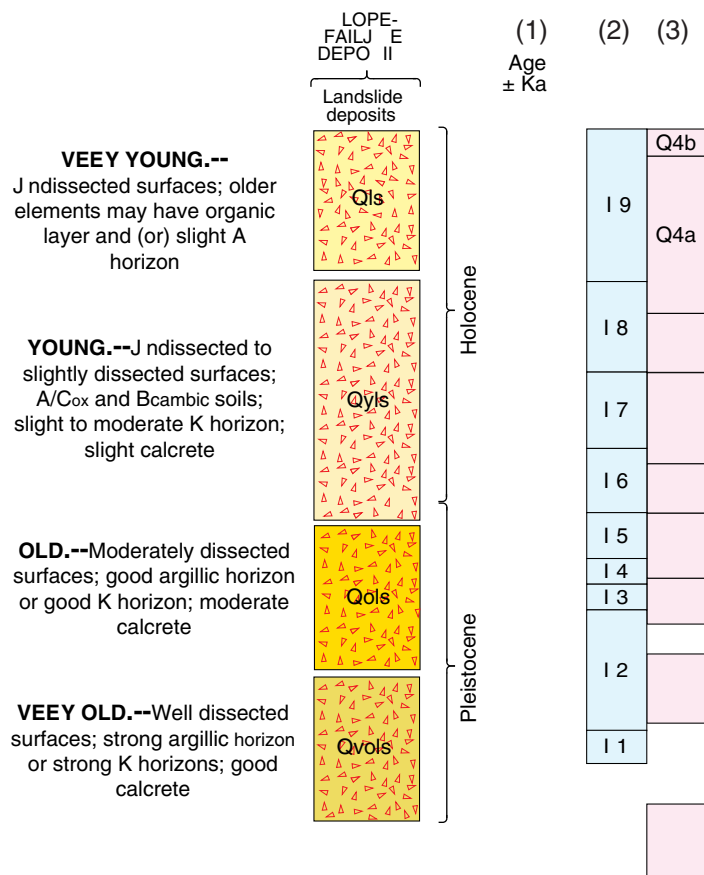


# CLAGGIFICATION OF UATEENAEY GUEFICIAL DE OGITG, GOUTHEEN CALIFOENIA AEEAL MA ING EOJECT (GCAM )

## Glope-Failure Deposits

Version 1.0 09/10/2000



I YPE OF MOVEMENT			I YPE OF MAIE IAL		
			BED OCK	ENGINEE ING OIL	
				Predominantly Coarse	Predominantly fine
FALL			ock fall	Debris fall	Earth fall
I OPPL			ock topple	Debris topple	Earth topple
LIDE	otational	Few J nits	ock slump	Debris slump	Earth slump
	I ranslational		ock block slide	Debris block slide	Earth block slide
			Many J nits	ock slide	Debris slide
LAI E AL P EAD			ock spread	Debris spread	Earth spread
FLOW			ock flow (deep creep)	Debris flow (soil	Earth flow creep)
COMPLEX			Combination of two or more principal types of movement		

I able 1.—I ypes of slope-failure processes and their geologic products (Varnes, 1978, Figure 2.1)

- (1) Numerical time scale is not linear;
- (2) I errace-age designations proposed by McFadden (1982) and by Bull (1991, Figure 4.11) for alluvial deposits in Mediterranean-climate regimes of southern California;
- (3) Geomorphic-surface designations proposed by Bull (1991, I able 2-13) in arid climatic regimes of southern California

Bull, W. ., 1991, Geomorphic responses to climatic change: New York, Oxford J niversity Press, 326 p.

Matti, J.C., Miller, F.K., Powell, .E., Kennedy, .A., and Cossette, P.M., 1997a, Geologic-polygon attributes for digital geologic-map data bases produced by the outhern California Areal Mapping Project, version 1.0: J. . Geological urvey Open-File eport 97-860, 248 p.

McFadden, L.D., 1982, I he impacts of temporal and spatial climatic changes on alluvial soils genesis in southern California: I ucson, J niversity of Arizona, unpublished Ph.D. thesis, 430 p.

Varnes, D.J., 1978, lope movement types and processes, in chister, .L., and Krizek, .J., eds., Landslides: analysis and control: Washington, D.C., I ransportation earch Board, National Academy of ciences, ecial eport 176, p. 11-33.